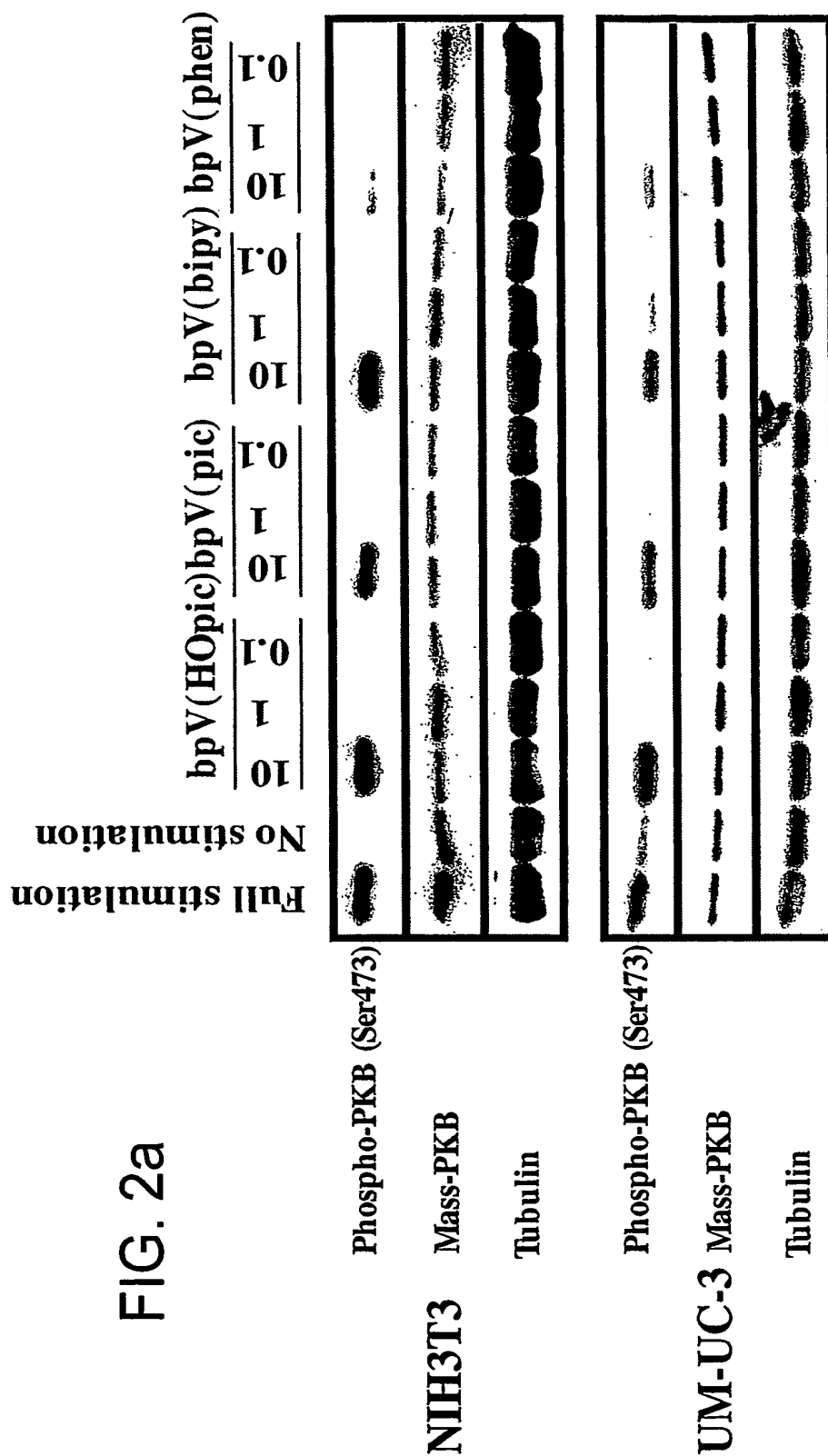
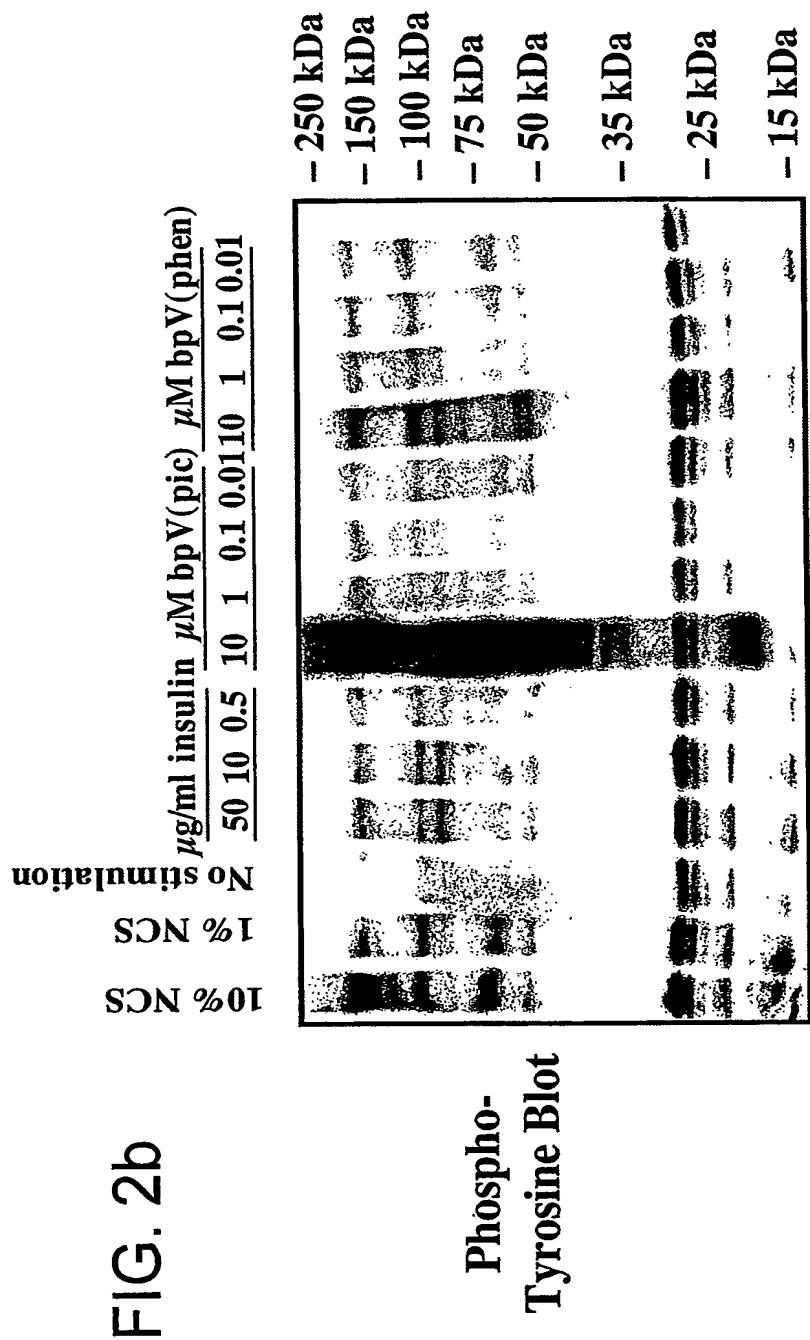


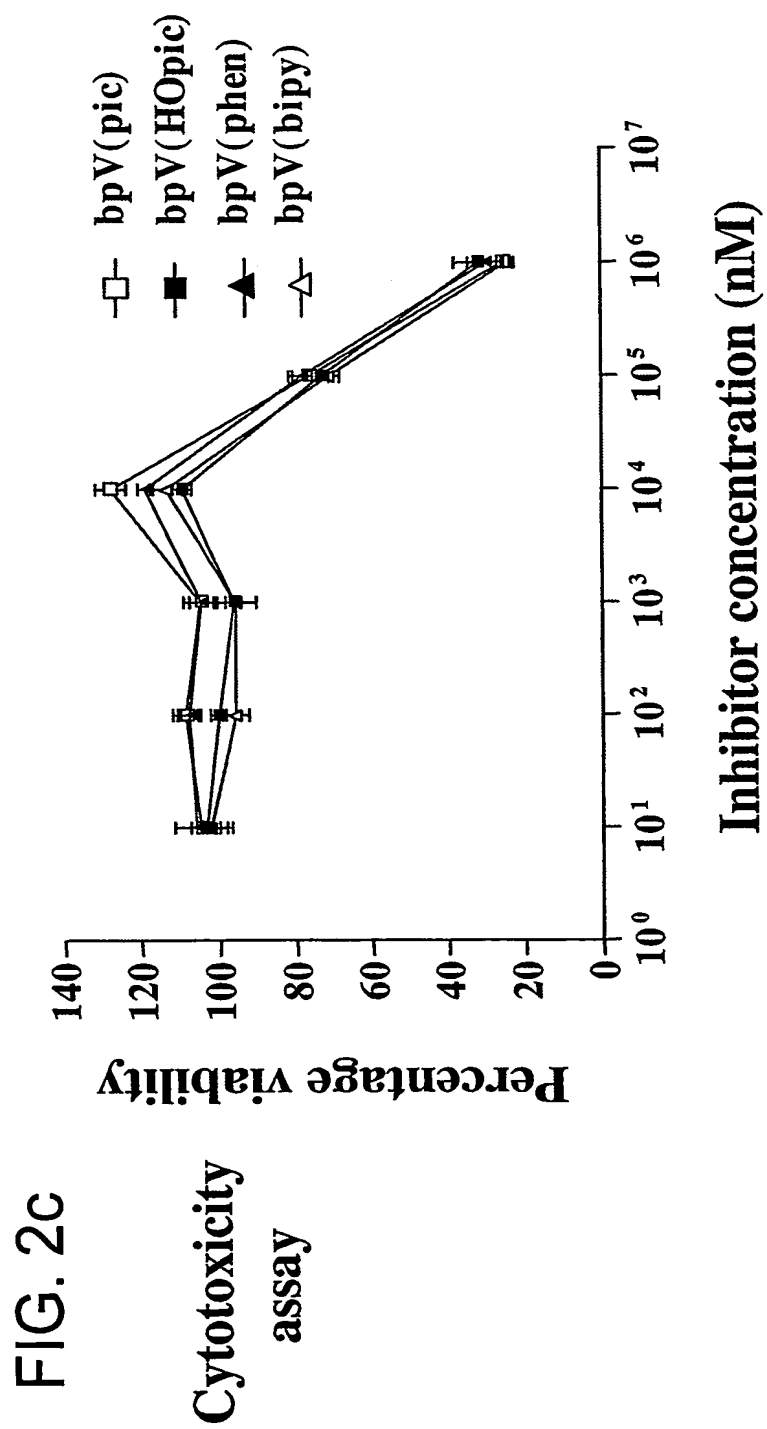
FIG. 1 **IC₅₀ values**

		Aromatic bpVs		Polar bpVs	
inhibitor enzyme	bpV (bipy)	bpV (phen)	bpV (HOpic)	bpV (pic)	
PTP- β	60.3 nM +/- 9.6	343 nM +/- 88.5	4.9 μ M +/- 0.9	12.7 μ M +/- 3.2	
PTP-1B	164 nM +/- 22.6	920 nM +/- 45.2	25.3 μ M +/- 2.9	61 μ M +/- 10.5	
PTEN	18 nM +/- 0.8	38 nM +/- 2.4	14 nM +/- 2.3	31 nM +/- 1.7	



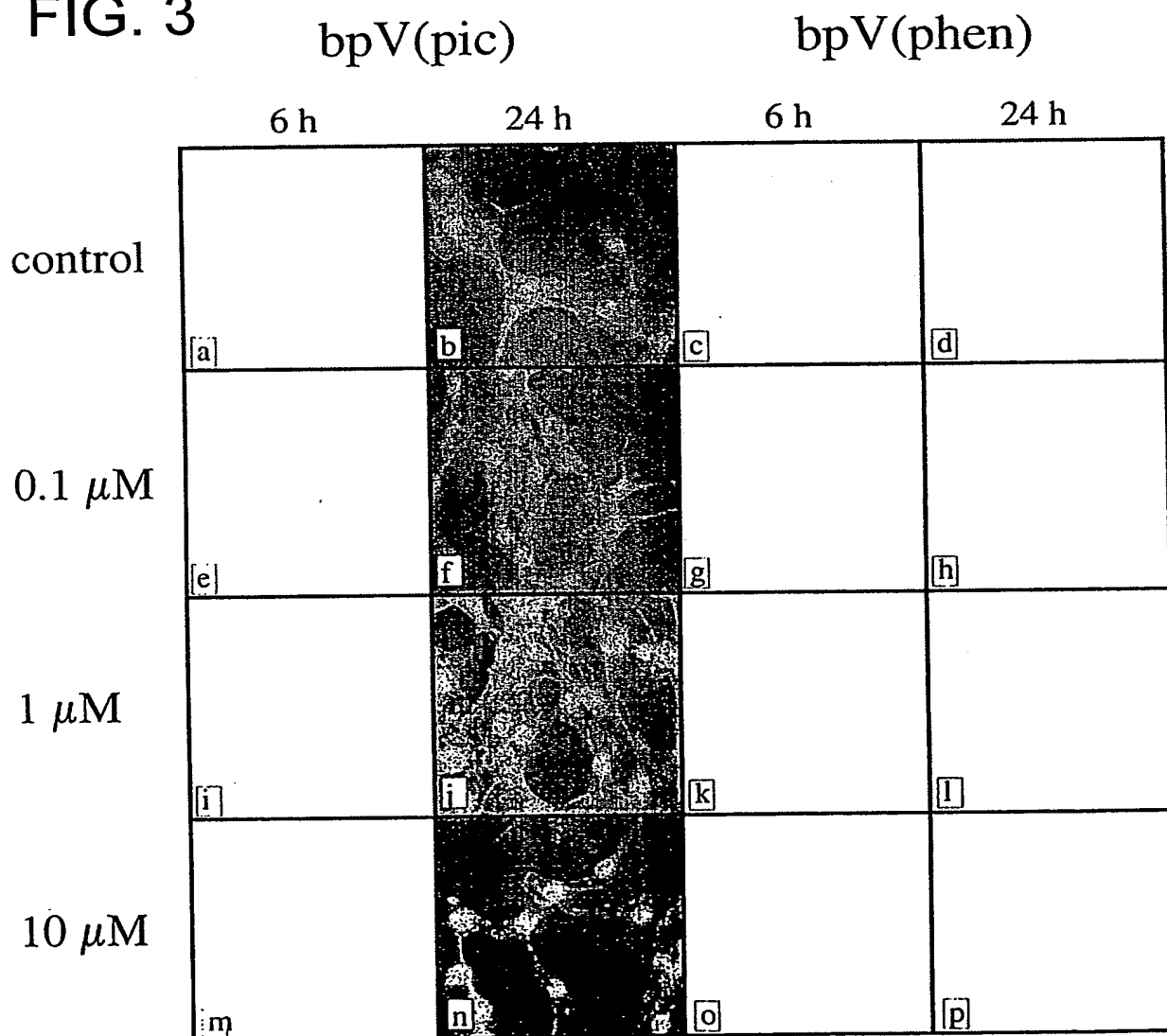


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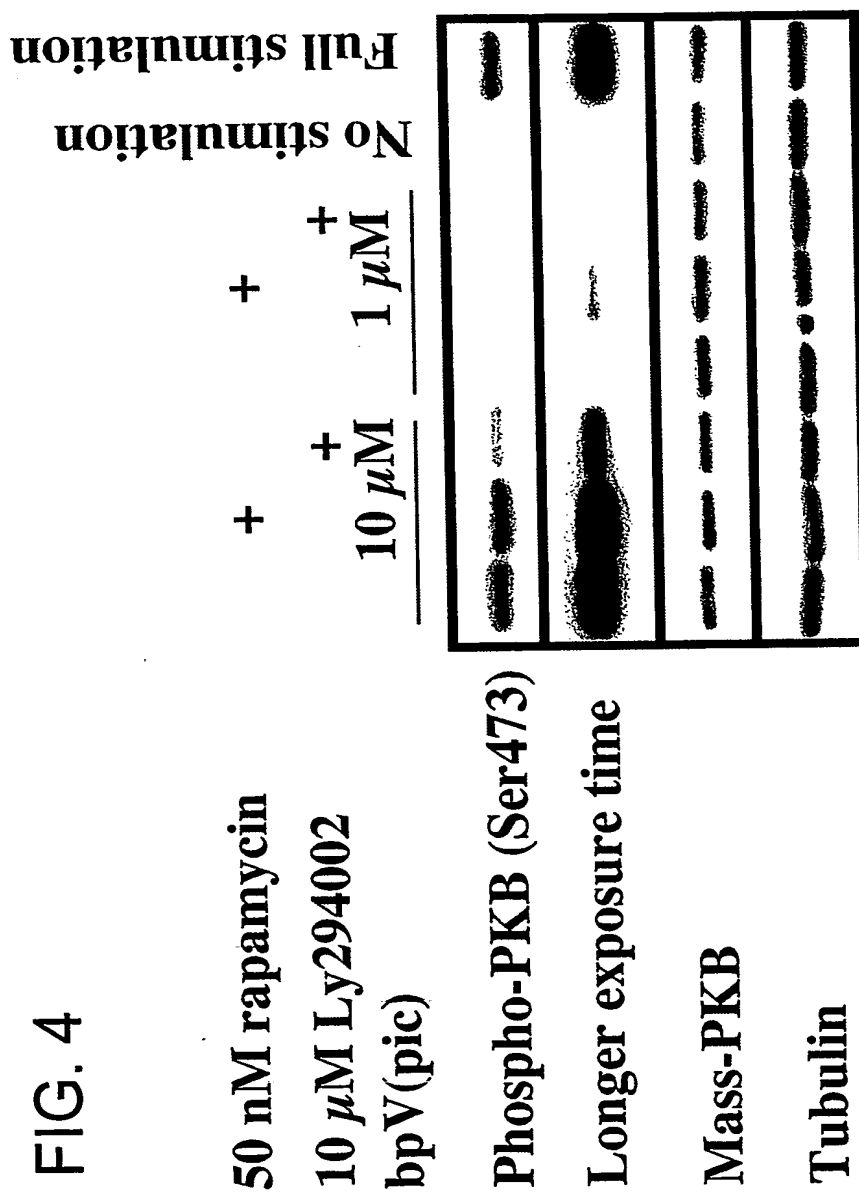


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FIG. 3

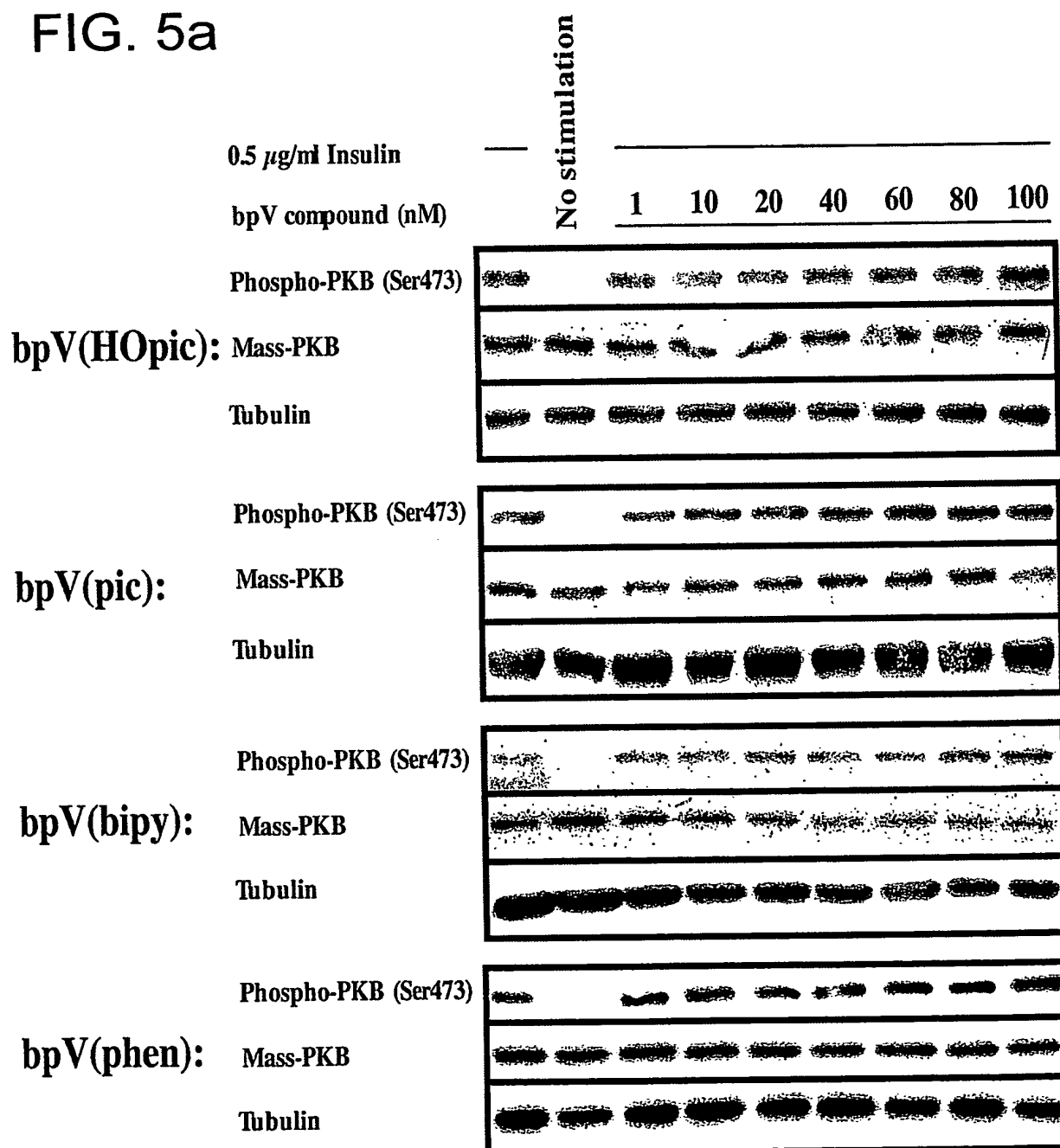


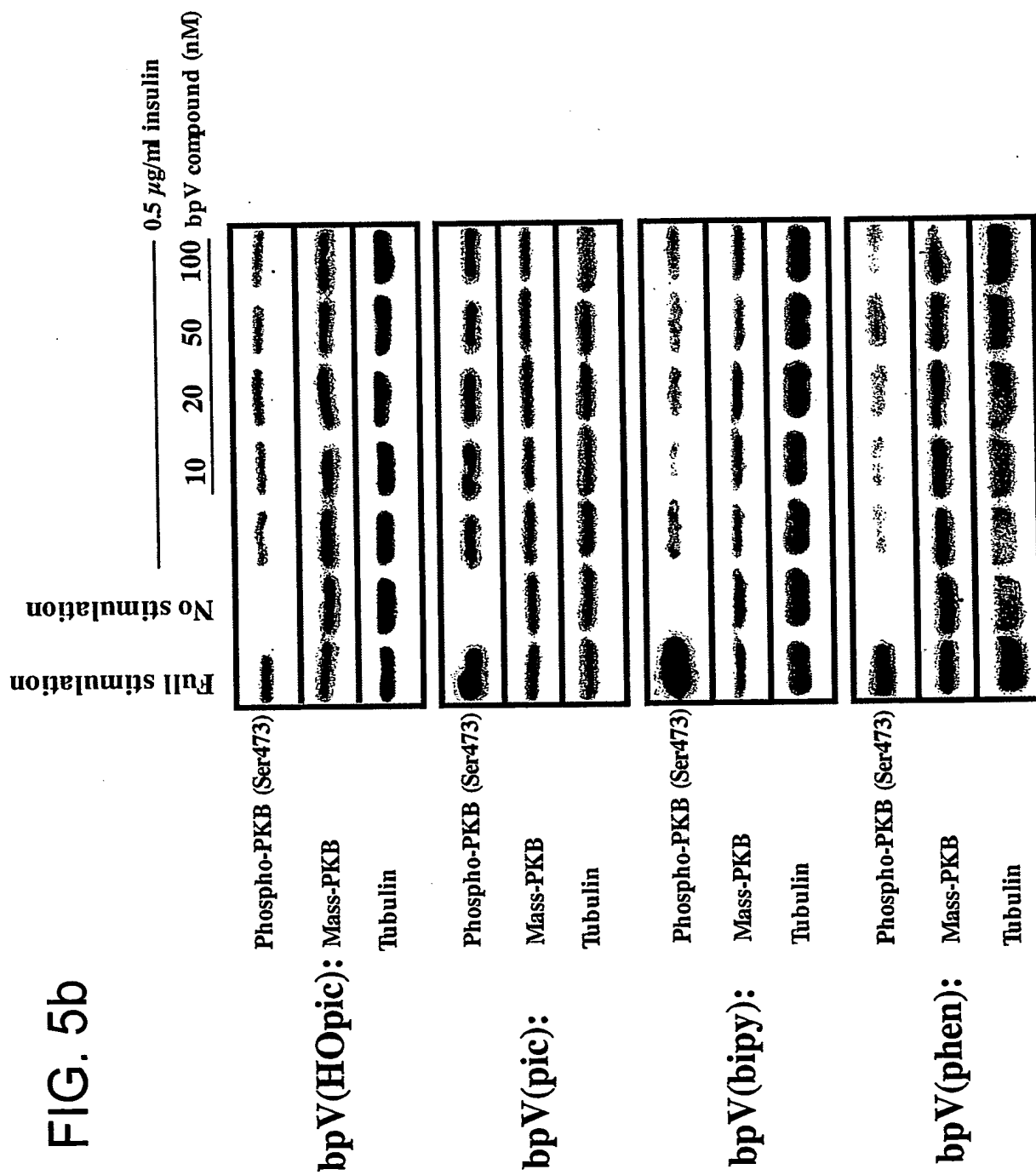
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FIG. 5a





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FIG. 6

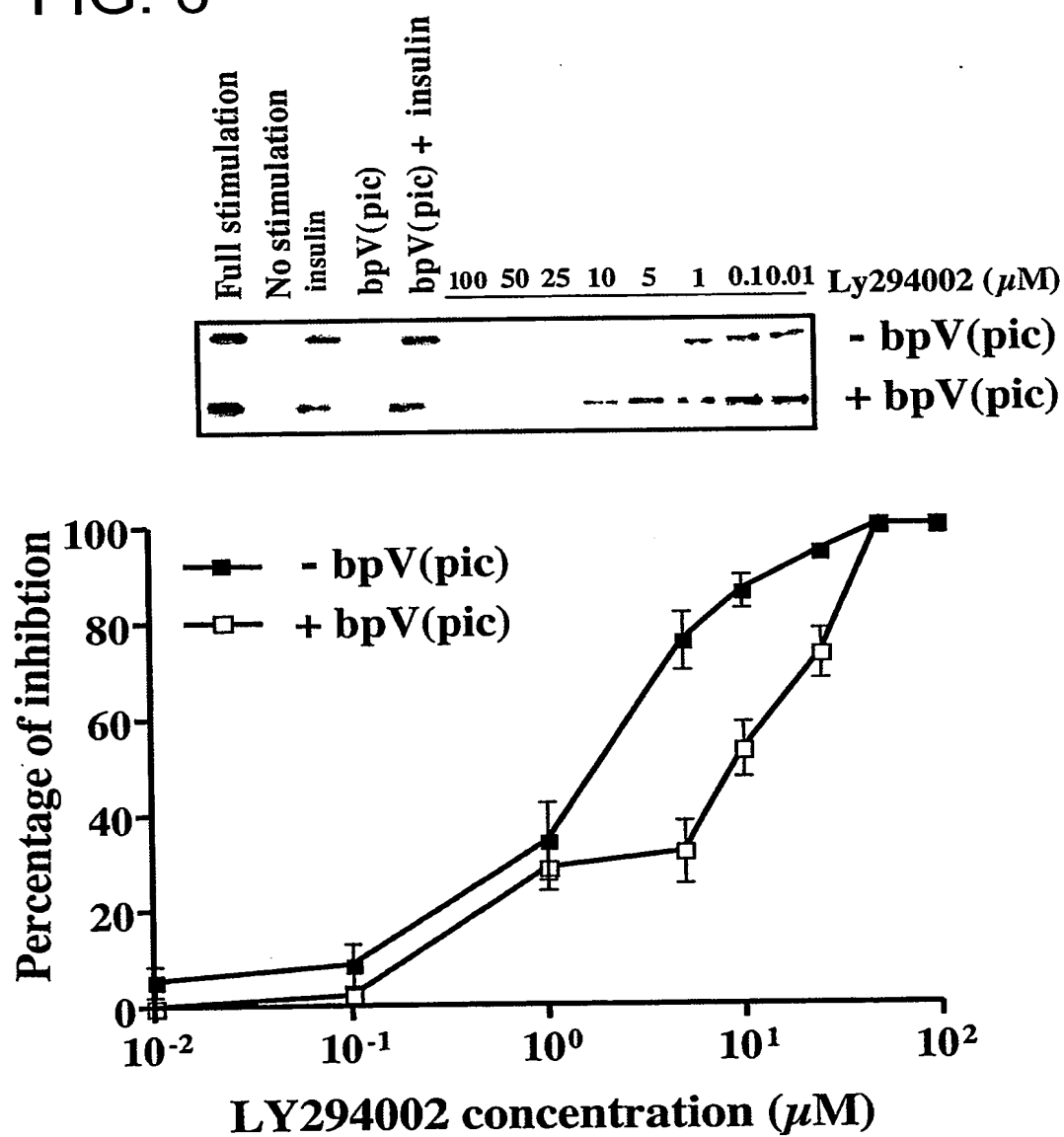


FIG. 7

property	inhibitor class	polar inhibitors	aromatic inhibitors
Cytotoxicity	MTT	high μ molar	high μ molar
	actin	μ molar	μ molar
Insulin mimetic	pSer473(PKB)	μ molar	μ molar
	pTyr	μ molar	μ molar
PTP inhibition	<i>in vitro</i>	high nanomolar	μ molar
PTEN inhibition	<i>in vitro</i>	low nanomolar	low nanomolar
	<i>in vivo</i>	nanomolar	nanomolar
Inhibitor sensitivity	rapamycin (PKB)	stimulates phosphorylation	
	Ly294002 (pTyr)	inhibits phosphorylation	